

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648007

Luminaire Tested: **GALN-SA6A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18658.9 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

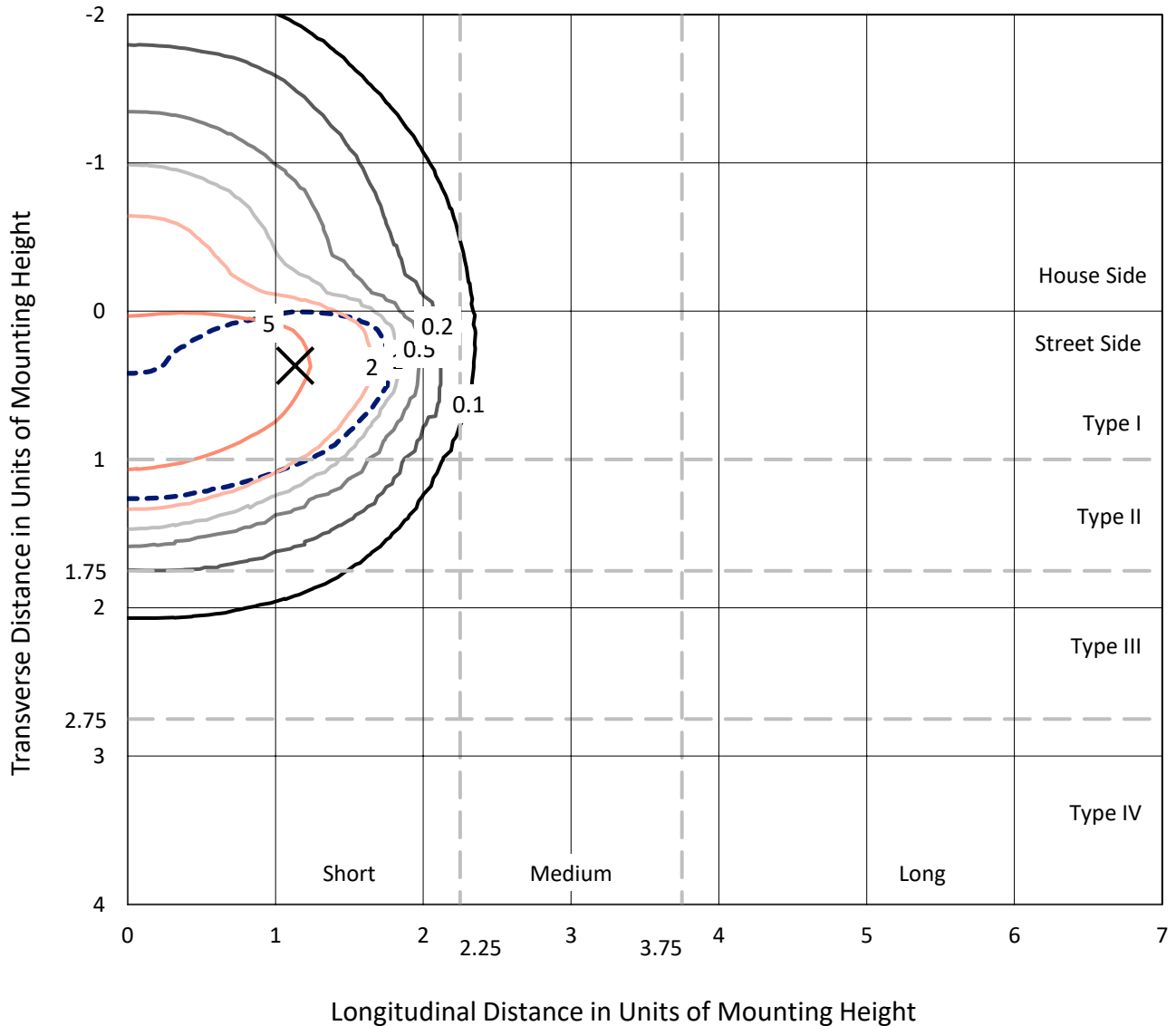
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

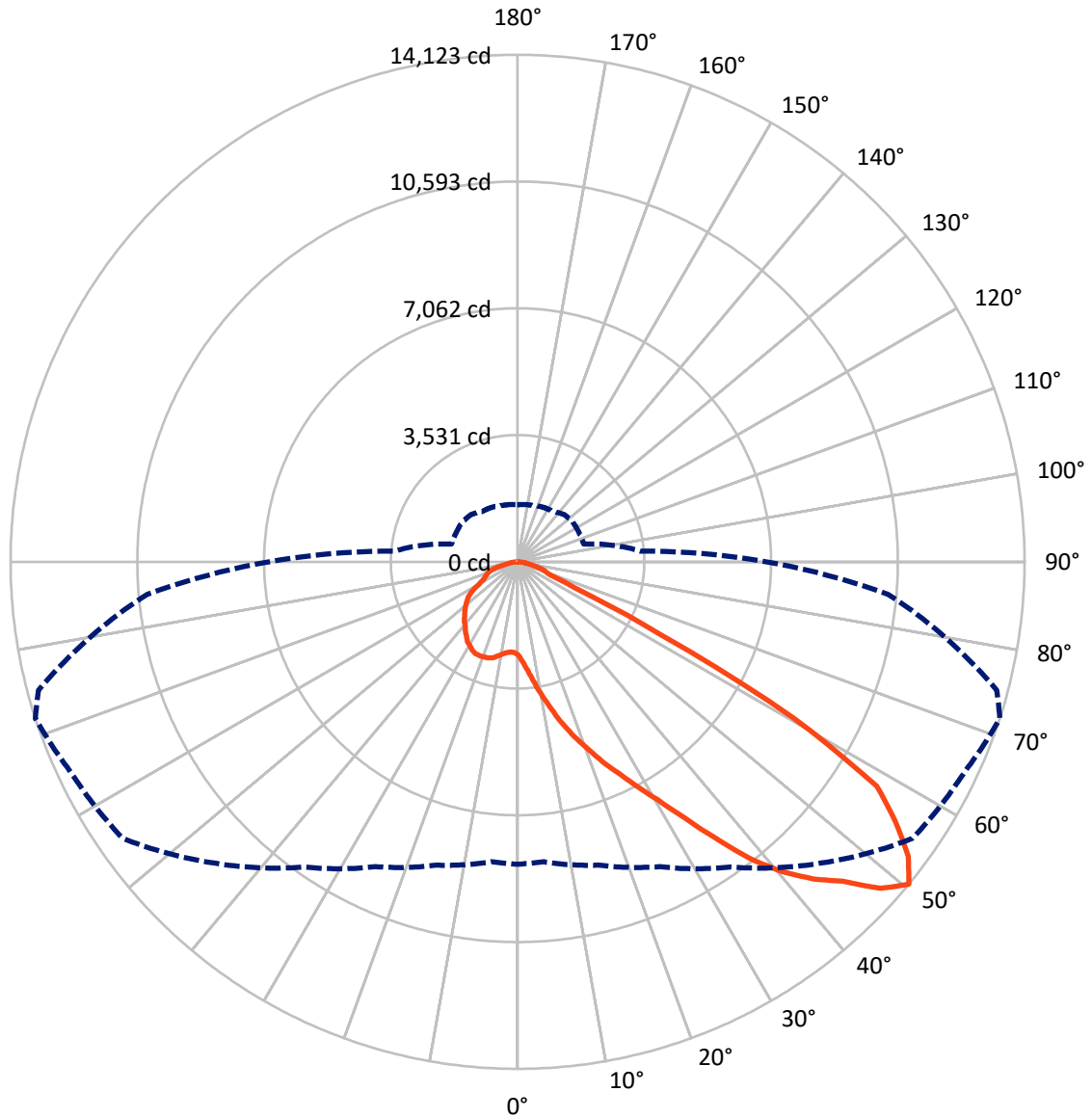
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4274.9	0.0	4274.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	14384.0	0.0	14384.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	18658.9	0.0	18658.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.5	1.6
10°-20°	1142.2	6.1
20°-30°	2214.6	11.9
30°-40°	3668.8	19.7
40°-50°	5133.5	27.5
50°-60°	4330.7	23.2
60°-70°	1320.0	7.1
70°-80°	463.1	2.5
80°-90°	80.5	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18658.9	100.0
0°-180°	18658.9	100.0

**Coefficient of Utilization**

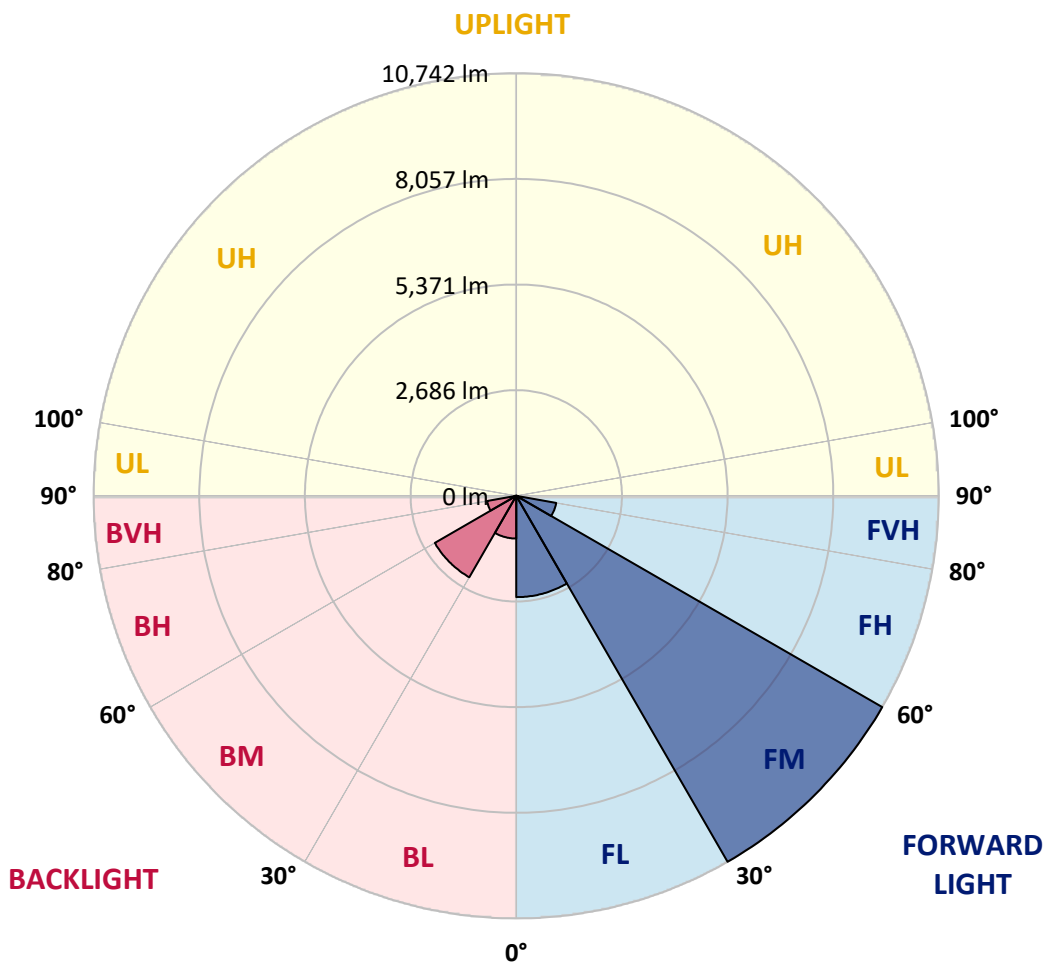


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2575.6	13.8			
FM (30°-60°)	10742.4	57.6			
FH (60°-80°)	1029.9	5.5			G1/1800
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	1086.7	5.8	B3/2500		
BM (30°-60°)	2390.6	12.8	B2/2500		
BH (60°-80°)	753.2	4.0	B2/1000		G2/1000
BVH (80°-90°)	44.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4
2.5°	3340.9	3320.2	3257.8	3237.0	3163.2	3029.3	2983.1	2846.8	2789.1	2736.0	2673.6
5°	4225.2	4128.3	4121.3	4003.6	3832.7	3733.4	3437.9	3239.3	3056.9	2964.6	2793.7
7.5°	4788.6	4790.9	4790.9	4693.9	4557.7	4306.0	4040.5	3682.6	3407.9	3271.7	2980.7
10°	5324.2	5278.0	5252.7	5243.4	5151.1	4906.4	4622.4	4179.0	3802.7	3643.4	3121.6
12.5°	5702.9	5663.7	5721.4	5691.4	5624.4	5465.1	5197.2	4691.7	4220.6	4005.9	3347.9
15°	5883.0	5910.7	5956.9	6040.0	6010.0	5949.9	5654.4	5218.1	4670.8	4428.4	3548.7
17.5°	6160.1	6083.8	6139.3	6243.2	6326.3	6298.6	6130.0	5599.0	5116.4	4818.6	3818.8
20°	6354.0	6310.1	6337.8	6457.9	6520.3	6677.3	6589.5	6097.7	5543.6	5229.6	4137.5
22.5°	6908.1	6843.5	6753.5	6771.9	6795.0	6905.8	6926.6	6644.9	6040.0	5707.5	4439.9
25°	7591.6	7531.5	7425.3	7316.8	7249.9	7229.0	7300.6	7074.4	6515.7	6171.6	4765.5
27.5°	8344.3	8242.6	8175.7	7951.8	7771.7	7743.9	7709.3	7587.0	7079.0	6707.3	5132.6
30°	9076.1	8995.3	8905.3	8547.5	8360.4	8330.4	8159.6	8194.2	7690.9	7277.5	5548.2
32.5°	9630.3	9637.2	9431.7	9161.6	8986.1	8826.8	8764.4	8863.7	8475.8	8143.4	6012.3
35°	10078.2	10099.0	9902.8	9658.0	9468.7	9579.5	9551.8	9597.9	9413.2	9006.9	6552.5
37.5°	10514.6	10410.7	10200.6	10082.8	9983.6	10165.9	10401.5	10440.7	10475.4	9997.4	7180.6
40°	10586.2	10595.4	10473.0	10556.2	10431.4	10706.2	11253.4	11202.6	11343.5	10925.6	7861.7
42.5°	10484.6	10505.4	10553.8	10671.6	10971.7	11301.9	12114.7	11906.8	12077.7	11705.9	8524.4
45°	10318.3	10232.9	10292.9	10740.9	11260.3	11994.5	12902.0	12740.3	12684.9	12373.2	9313.9
47.5°	9524.1	9611.8	9798.9	10350.6	11131.0	12114.7	13460.7	13423.8	13590.0	13370.7	10032.0
50°	8422.7	8388.1	8748.3	9369.4	10376.1	11879.1	13430.7	13765.5	14123.4	13818.5	10353.0
52.5°	6307.8	6492.6	6801.9	7573.1	9009.2	10595.4	12775.0	13333.7	13624.6	13560.0	10094.4
55°	3987.4	4042.9	4229.8	5146.5	6439.5	8503.5	10951.0	12246.2	12765.7	13008.1	9856.6
57.5°	1937.1	1833.2	2061.8	2798.4	3719.6	5719.0	8445.8	10667.0	11796.0	12234.7	9339.4
60°	1011.3	1050.6	1140.6	1403.8	1923.3	2969.2	5264.2	7109.0	8833.7	9507.9	7079.0
62.5°	838.1	852.0	912.0	1043.6	1279.1	1708.6	2687.5	3465.6	4504.6	5111.8	4026.7
65°	711.1	718.1	782.7	870.5	1020.5	1202.9	1383.0	1447.7	1752.4	1798.6	1431.5
67.5°	593.4	600.3	669.5	752.7	849.6	898.2	944.3	939.7	974.4	960.5	958.2
70°	457.2	464.1	535.7	623.4	671.9	644.2	787.3	819.6	833.5	845.0	863.5
72.5°	330.2	344.1	399.4	461.7	436.4	501.0	648.8	697.3	715.7	722.7	745.7
75°	240.1	244.8	258.6	240.1	277.0	348.7	457.2	517.2	540.3	547.2	581.8
77.5°	106.2	108.5	110.8	138.5	177.8	217.0	272.5	321.0	353.3	362.5	371.7
80°	55.4	57.7	71.6	94.7	127.0	159.3	198.6	226.3	247.0	249.4	258.6
82.5°	34.6	37.0	50.8	66.9	90.0	117.8	145.5	168.6	184.7	187.0	189.3
85°	16.1	20.7	30.0	41.6	60.1	76.2	78.5	66.9	71.6	73.9	69.3
87.5°	4.6	6.9	9.2	6.9	9.2	9.2	11.5	13.9	13.9	13.9	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4	2597.4
2.5°	2639.0	2618.3	2537.5	2507.4	2428.9	2442.8	2401.2	2398.9	2389.7	2387.4	2385.1
5°	2703.7	2639.0	2542.1	2468.2	2424.3	2419.7	2389.7	2389.7	2398.9	2405.8	2389.7
7.5°	2809.9	2736.0	2572.1	2502.8	2463.6	2456.7	2435.8	2419.7	2440.5	2433.6	2415.1
10°	2932.3	2803.0	2629.8	2569.8	2505.1	2488.9	2488.9	2495.9	2461.3	2472.8	2454.3
12.5°	3068.5	2895.3	2703.7	2634.4	2558.2	2549.0	2544.4	2493.5	2512.0	2502.8	2456.7
15°	3241.6	3001.6	2798.4	2680.6	2615.9	2574.4	2514.4	2505.1	2493.5	2470.5	2449.7
17.5°	3428.7	3117.0	2842.2	2694.5	2597.4	2567.5	2521.3	2472.8	2438.2	2442.8	2426.6
20°	3588.0	3223.1	2858.3	2708.3	2583.6	2525.9	2454.3	2424.3	2387.4	2385.1	2382.7
22.5°	3777.3	3366.4	2881.4	2671.4	2542.1	2482.0	2433.6	2380.5	2355.0	2322.7	2338.9
25°	4003.6	3421.7	2886.1	2650.6	2512.0	2405.8	2380.5	2322.7	2313.5	2267.3	2276.6
27.5°	4167.5	3451.8	2849.2	2585.9	2442.8	2362.0	2315.8	2274.2	2258.1	2223.4	2214.2
30°	4386.8	3498.0	2770.6	2505.1	2373.5	2283.5	2255.7	2246.5	2200.4	2163.4	2158.8
32.5°	4636.2	3528.0	2719.8	2422.0	2301.9	2232.6	2246.5	2202.7	2145.0	2112.6	2103.4
35°	4834.8	3539.5	2592.8	2327.3	2253.5	2209.5	2193.4	2184.2	2101.1	2071.0	2047.9
37.5°	5137.3	3514.1	2486.7	2260.4	2200.4	2184.2	2170.3	2108.0	2013.3	1969.5	1937.1
40°	5490.5	3507.1	2350.4	2165.7	2149.6	2168.0	2126.5	2029.5	1897.9	1849.4	1826.3
42.5°	5829.9	3555.7	2265.0	2115.0	2094.1	2101.1	2043.3	1897.9	1833.2	1805.5	1768.6
45°	6397.9	3657.2	2124.1	2036.4	2027.2	2022.6	1953.3	1800.9	1763.9	1729.3	1722.4
47.5°	6910.4	3590.3	2034.1	1955.6	1964.9	1939.4	1791.7	1743.2	1701.6	1667.0	1655.5
50°	6940.4	3430.9	1907.2	1893.3	1895.6	1851.7	1710.9	1678.5	1625.4	1602.3	1586.2
52.5°	6783.4	3170.1	1789.4	1794.0	1800.9	1729.3	1611.6	1588.5	1544.6	1512.3	1503.0
55°	6342.5	2763.7	1673.9	1692.4	1710.9	1574.6	1537.7	1479.9	1445.3	1399.1	1401.5
57.5°	5587.5	2225.8	1512.3	1542.4	1581.6	1431.5	1403.8	1332.2	1281.5	1244.5	1239.9
60°	3745.0	1583.9	1269.9	1281.5	1369.2	1309.1	1306.8	1235.3	1166.0	1133.6	1115.1
62.5°	2209.5	1209.8	1096.7	1085.2	1082.9	1117.5	1175.2	1149.8	1059.8	997.5	1015.9
65°	1156.7	1045.9	1020.5	981.3	958.2	948.9	992.8	1004.4	944.3	877.4	872.7
67.5°	972.0	972.0	951.3	937.4	905.1	865.8	838.1	801.2	791.9	773.4	750.3
70°	884.3	907.4	900.4	868.1	840.4	796.5	725.0	664.9	607.2	586.5	600.3
72.5°	771.2	794.3	794.3	778.1	741.1	674.2	604.9	535.7	487.2	450.2	445.6
75°	593.4	604.9	632.7	614.2	565.6	524.1	452.6	380.9	334.8	300.1	293.2
77.5°	378.7	397.1	397.1	394.8	360.2	321.0	274.8	223.9	189.3	164.0	157.0
80°	251.7	263.2	272.5	263.2	240.1	210.1	175.5	140.9	115.4	94.7	90.0
82.5°	184.7	198.6	205.5	196.2	173.2	150.1	124.7	99.3	73.9	57.7	53.1
85°	71.6	73.9	83.2	99.3	96.9	94.7	76.2	55.4	41.6	30.0	27.7
87.5°	18.5	16.1	18.5	18.5	16.1	13.9	13.9	13.9	13.9	6.9	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)